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(54) ZINC ALKALINE BATTERY

(57) Abstract:

PURPOSE: To obtain a zinc alkaline battery whose hydrogen gas evolution is reduced and discharge performance is improved by adding a specified amount of lead and indium, and at least one element of thallium, cadmium, bismuth, gallium, and silver, and aluminum to negative active material comprising zinc.

CONSTITUTION: A zinc alloy containing 0.01@0.5wt% lead, 0.01@0.5wt% indium, and the total amount of 0.01@0.5wt% at least one element selected from thallium, cadmium, bismuth, gallium, and silver, and 0.005@0.2wt% aluminum is used as negative active material. If the content of each specified element is less than the lower limit, the expected effect cannot be obtained, and if

the content exceeds the upper limit, self discharge of zinc is increased, gas evolution is not retarded, and discharge performance is not improved.

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